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TECHNIQUE PAYMENTS START

The Technique management has decided to accept the final payments for Technique from this time to the Technique Rush, April 17. This system will facilitate the distribution of Techniques on the day of the rush, and prevent the inconvenience caused by a short time for making the final payments. In order to prevent waiting in line and as a convenience for Technique, payments will be accepted from 1 to 2 P. M. at the window opposite to the mail boxes in the main lobby. Early payment will insure a more speedy receipt of the book. Those who paid in full when they signed up are requested to have their stubs stamped in order to prevent confusion.

This step has been taken to prevent the confusion which took place at the Technique distribution last year. The great increase in sign-ups, from about 1000 to over 1250, has forced the use of another system of final payments.

REWARD OFFERED FOR RETURN OF BAG OF BOOKS LOST IN CAF

A bag of books was lost in the Caf Wednesday morning at 8.45 o'clock. A reward has been offered for their return to the office of The Tech.

CATHOLIC CLUB

The members of the Catholic Club will attend the 9 o'clock Mass in a body at the Cathedral of the Holy Cross next Sunday morning, April 1.

RIVERBANK COURT CHOSEN FOR CADET CORPS DANCE

The Cadet Corps Dance, which is to be held in Riverbank Court the evening of April 7, is now assured, as enough men have already signed up to make it possible to hold the dance. Practically all of the officers have bought tickets and sign-ups are now open to freshmen and upperclassmen, no matter whether they are connected with the Cadet Corps or not. The number of couples is limited to fifty.

Tickets can be obtained from any of the committee in charge, which is composed of Major F. C. Howard '17, Captains H. E. Collins '18, H. W. Fitch '18, H. L. Wirt '18, and Lieutenant H. C. Wasgatt '18. There will be a man in the Caf today at 1 o'clock to take sign-ups.

H. M. GARY TO SPEAK TODAY

At 1.30 o'clock H. M. Gary will address those interested in teaching English to foreigners in Room 2-147 on the topic of preparing the latter to take out his citizenship papers. Mr. Gary is well qualified to speak on this subject by reason of his intimate relations with the foreigner as the Industrial Secretary of the Cambridge Y. M. C. A. He has much experience in arranging meetings of this sort, and has one of the best industrial programs that is being carried on in this city, shop meetings, religious meetings and health talks being arranged by him. This talk which is to be given today is the second of a series being run by the T. C. A. for the purpose of instructing those men who are interested in industrial service.



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TECH SHOW NOT TO BE GIVEN IN OPERA HOUSE

National Theater Only Place
Available For Performance—
Students to Run House in
Place of Attendants

TWO SHOWS IN BOSTON

The Boston performances of the Tech Show will be given at the National Theater on Saturday, April 21, afternoon and evening. As the Opera House has become associated in the minds of the Tech men with the Show, it is well to explain the reason for this change. This Spring the theaters are booking shows very late in order to take advantage of the large number of conventions which will meet here during April and May, and for this reason amateur shows desiring to play for one night are unable to get theaters.

The National Theater is on the corner of Tremont and Berkeley Streets, and can be easily reached from Boylston Street via the Berkeley Street cars. The theater has been closed for over a year and is being opened for the Show by Mr. Larsen, the local manager of the B. F. Keith theaters. As the theater has been closed, there is of course no permanent staff of attendants there, so that students will have practically every position in connection with the running of the house. In this way, with the cooperation of the students, the Show will be more truly a Technology production. The scenery for the Show is being designed by students and is being constructed by R. Brunton, who turned out the scenery for last year's Show, "M 34." The costumes are being designed and made under the direction of J. P. Gardner, with the assistance of the members of the Cleofan. The costumes this year will form the nucleus of a wardrobe which should be of great help in costuming future Shows.

FINAL JUNIOR PROM PAYMENT DUE BY TWO O'CLOCK TODAY

Forfeited Sign-Ups Will Be Given to
Men on Waiting List

All men holding Junior Prom Sign-ups who have not made their last payments are required to make this payment before 2 o'clock today or forfeit their sign-ups and lose the first payments. Members of the Junior Prom Committee will be in the Caf from 12 until 2 o'clock today to receive these payments.

The forfeited sign-ups will be given to the men on the waiting list in the order in which applications were filed and notices will be mailed tonight to those obtaining these sign-ups. The men receiving these notices will be required to make full payment within three days or lose their place on the waiting list. These payments may be made between 1 and 1.30 o'clock in the Caf.

Application for group reservations should be made immediately in writing to Robert P. Collier, 179 Bay State Road, Boston.

These applications must contain the names of all members of the group and if any special position is desired it should be specified.

DEMOLITION OF OLD TECHNOLOGY BUILDINGS DECIDED UPON

The buildings formerly occupied by Technology on Stanhope and Berkeley Streets are to be razed. Bids for the demolition and removal of the old engineering buildings, A, B, and C, the Henry L. Pierce, Lowell and Union buildings and the Grundenmann studies are already open.

These buildings cover 123,857 square feet of land and are substantial structures of brick and stone. Their removal is made necessary in order to carry out the proposed extension of Stuart Street, which will pass through the centre of the land on which the former Technology buildings stand.

PREPAREDNESS MASS MEETING TO BE HELD IN DUPONT COURT

There will be a mass meeting Wednesday at 1 o'clock in the DuPont Court, which is being called by the Preparedness Committee of the Institute Committee. The Committee's report on the new military courses at the Institute will be presented to the students at this meeting. Blanks will be distributed amongst the students which are to be filled in with their opinions on the new courses, and the preparedness plans of the Institute.

ROWING SQUADS BUSY

Senior Eight to be Tentatively
Chosen Next Saturday

The men who will represent the Senior Class in the coming class crew races will be temporarily chosen next Saturday. The management advises all the men to get in as much practice before then as possible. The days for practice are Monday, Tuesday and Thursday at 5.15 and Saturday at 2 o'clock. Training rules will be given to the members of the squad at the practice today and anyone disobeying these rules will jeopardize his position on the crew.

The crew as it will row in the class races during Junior Week will be finally chosen Saturday, April 14. The members of the Senior squad who have been showing up well in practice, and from whom the Senior eight will be picked, are McDonald, who stroked the 1917 crew in the freshman, Sophomore and Junior years, and a member of last year's first eight; Dunning, captain of the 1917 crew in the freshman year; Perry, a Michigan oarsman; Bertelsen, of the Sophomore 1917 crew; Althouse, of last year's first eight; Littlefield, of last year's Junior crew; Brooks, of 1917's freshman crew; Wellington, past commodore of the Technology Rowing Association; and Hill, Beaver and Lovengard, who have all had previous experience. The competitors for coxswain are Lane and Pierce, who was coxswain of last year's Junior eight.

The hours set for the practice of the Junior squad are Monday and Wednesday at 4.10 and Saturday at 2.30; for the Sophomores they are Monday at 5, Thursday at 4 and Saturday at 3. The hours for the freshman practice have not yet been fixed, the management wishing first to find out when it will be most convenient to the members of the squad. All freshmen who are taking crew are requested to hand in their schedule cards to J. J. Hines before Wednesday night in order that a practice schedule can be worked out. As soon as this schedule is made out it will be posted up in the boathouse.

There will be no regular practice for the upperclass crews on Fridays, as Captain Deacon, Doctor Rowe and W. J. Littlefield have urged the men on the various crews to join one of the Engineering squads for at least one afternoon a week. This does not apply to the freshmen as they are not eligible for the Engineering Corps. If necessary the crews will give up more time to the Corps.

PROF. R. H. RICHARDS DISCUSSES MINING CONSULTATION PROBLEMS

Professor R. H. Richards, Professor Emeritus of the Department of Mining, spoke before the members of the Mining Society last Thursday evening. His talk was of an informal nature bearing upon ore-dressing problems on which he had been recently consulted. Professor Richards has just finished a tour of inspection of two plants and is leaving for Virginia soon to put a new plant in operation. The reports were of unusual interest to mining students, but owing to the commercial importance of the details which he gave, it was impossible to publish the talk verbatim.

The Mining Society is planning a trip to the Boston Gas Works this week and the officers are also trying to obtain a well-informed speaker to talk to the society about the mining engineer's field of activity in the impending conflict.

M. E. SOCIETY SMOKER

Mr. Odin Roberts 88, Lawyer, Discusses
Patent Law

Mr. Odin Roberts '88, who is one of the most noted patent lawyers in the East, addressed the Mechanical Engineering Society at a smoker held in the Caf last Friday night. Mr. Roberts told of the origin of Patent Law in England, and how we have in this country a growth of the old system with many distinctly new features. He cited examples which illustrated our patent law system as it now stands, and, when he had finished his address, answered questions which were put to him from the floor.

E. P. Warner '17 was the student speaker of the evening and delivered an address on "Stress Developed in Aerial Propellers." Warner has been a student of Aeronautics both at Harvard and at the Institute. He illustrated his talk with many diagrams and plots and exhibited a full-size propeller to show angles and sections.

The smoker was well attended by members of the society and guests. There will be another smoker held this week Friday in the Caf, but the details of the program are not settled as yet. This will probably be the last smoker of the year.

FRESHMEN VICTORIOUS

Defeat Sophomores by Close
Score in Cross-Country Race

The freshmen beat the Sophomores in the annual Spring cross-country race Saturday afternoon by the narrow margin of 38 to 42. Herzog '19 took first place, but was hard pressed by McMahon '20, who finished only ten seconds later. McCarten '19 beat out Handy '20 for third place by two-fifths of a second.

The race started from the front of Building 2 a little after 3 o'clock. The course led across Harvard Bridge, west up the alley on the far side of the Bridge to Bay State Road. About three blocks farther on it shifted to Commonwealth Avenue, and continued to Cottage Farm Bridge, which it crossed, and then led straight down Charles River Road. The total distance was 3.14 miles. Coach Kanaly considers that the general showing is prophetic of an exceptional cross-country team for the coming fall.

The order in which the contestants finished, with their times, is as follows: 1, Herzog '19, 16.49 min.; 2, McMahon '20, 16.59 min.; 3, McCarten '19, 17.08 min.; 4, Handy '20, 17.08 2-5 min.; 5, Dorr '20, 17.29 min.; 6, Westland '19, 17.59; 7, Caldwell '19, 18.06 min.; 8, G. L. Hall '20, 18.11 min.; 9, Dyke '20, 18.18 min.; 10, Berko '20, 18.20 min.; 11, Barry '20, 18.25 min.; 12, R. K. Wells '19, 18.36 min.; 13, Bent '19, 18.37 min.; 14, Murray '19, 18.37 1-5 min.; 15, Harvey '20, 18.45 min.; 16, Miller '20, 18.46 min.; 17, S. H. Wells '20, 18.57 min.; 18, Reynolds '19, 19.01 min.; 19, Atwater '20, 19.04 min.; 20, Goodrich '19, 19.17 min.; 21, Coyle '20, 19.19 min.; 22, Hewes '19, 19.52 min.; 23, Bradley '20, 19.53 min.; 24, Hubbel '20, 19.54 min.; 25, Barnes '20, 19.54 2-5 min.; 26, Tattersfield '20, 20.07 min.; 27, Harrop '20, 20.12 min.; 28, Leonari '20, 20.25 min.; 29, Maconi '20, 20.30 min.; 30, Dziadik '20, 20.38 min.; 31, Wilson '20, 21.01 min.; 32, Hunt '20, 21.15 min.; 33, White '20, 21.31 min.; 34, Kelsey '19, 21.53 min.

1918 BASEBALL PRACTICE

All candidates for the Junior baseball team are asked to report for practice on Wednesday and Friday of this week, at 3 o'clock at the Cottage Farm Bridge Field, which is located near the Ford factory. It is necessary for the men to turn out for these practices as the first game of the season is to be played Saturday, April 7, with the Charlestown Evening School in Charlestown. Battery candidates are especially desired to report.

PROFESSOR SUMNER CONSIDERS BASIC PROBLEMS OF THE WAR

Delivers Address on "The World and the War" in
Rogers Friday—Attributes Conflict
to German Ambition

PROFESSOR C. M. SPOFFORD LECTURES ON WATERPOWER

Thinks Hydro-electric Power Should
Be Used If Possible

Professor Spofford delivered a lecture recently in the Portland High School before the University of Maine Extension Course on "The Waterpowers of New England." He brought out that the important manufacturing centers in New England are today dependent on steam for power. Boston, New Bedford, Lynn, Worcester and Springfield are practically without other forms of developed energy, while cities like Fall River and those on the Merrimack with water power at hand generally neglect it. "One Maine river, the Kennebec, would, if fully utilized, develop as much power as is required for manufacturing in the four largest manufacturing cities in New England. But only one-sixth of the available resources is used."

There are many large hydro-electric developments in the west, such as the system which delivers current at 140,000 volts to Battle Creek from Ausable, Mich., a distance of 245 miles. The New England Power Co., with plants on the Connecticut and Deerfield rivers, sells power within 30 miles of Boston at lower figures than the local companies, and is extending its service to Providence.

Hydro-electric power is not subject to depletion. Water is not destroyed with a single use, leaves no ashes and gives no smoke. It gives a much higher efficiency than coal and is not subject to strikes. The power may be tapped at any place for isolated plants and farm use and helps in developing the country. Many important industries depend upon cheap electricity, such as the fixation of atmospheric nitrogen, and the manufacture of carborundum.

The speaker also considered the rising price of coal. In six months the tide-water price of bituminous coal in Boston has jumped more than 110 per cent. He figured that the State of Maine had paid this year nearly fourteen million dollars over the normal price for manufacturing coal. This expense could have been saved by the use of water power.

NEW DANCE FEATURE

Hawaiian Orchestra Secured for Spring
Concert

Final arrangements have now been completed and the Royal Hawaiian Orchestra of New York City has been secured for the Spring Concert Dance. Although they will probably play one or two feature dances this orchestra has not been engaged for the dancing. They will entertain between dances, and will keep things lively during the intermission. Herbert Lowe will furnish the music for the dancing.

As recently announced applications for reservations of ten or more seats in a section will be received at the office of the Combined Musical Clubs, in the basement of Building 1, on and after Wednesday, April 3. Applications received prior to this time will not be considered. The preliminary dance orders are now ready and may be had at the office of the Clubs, the Information Office, or at the Caf.

ENGLISH READINGS RESUMED

The English Department readings will be resumed Tuesday night, April 3, when Professor Seaver will read in Room 1-175.

HAS LIVED IN GERMANY

"In the British Empire rather than the Monroe Doctrine lies the security of the American nations," declared Professor John Osborne Sumner last Friday evening in an address on "The World and the War," delivered in Rogers before over one hundred and fifty members and guests of the Architectural Society.

This statement was the culmination of a series of citations from historical fact which were enthusiastically received by his audience and which in the belief of most of those present proved that should Germany win the war and destroy the sea power of England, "international law would become the will of Germany; changed and altered as it suited her."

The German People and the German
Hog

Professor Sumner lived four years in Germany as student in the University of Berlin and remembers this as one of the most enjoyable periods of his whole life. He has no antipathy against the German people as a whole and knew them as a happy and contented people. "Of course," he said, "I discovered the great German hog. But there is the great English hog and the great American hog, and they are all pretty much alike."

Two Types of Nations

"So much for the people. When it comes to government the question is different. In Germany the government presses itself upon one all the while, even as one runs to catch a moving train. On the other hand, in America, we scarcely ever hear of the government except through reading about it in the newspapers." Professor Sumner declared that there are two types of civilized states. First, "the type we know and thoughtlessly believe to be the only type; the kind run by the people and for the people. And second, the type which does not belong to the people but to some special class, by whom and for whom it is run." Germany, he stated, is left as the sore representative of the latter class by the recent overthrow of the Romanoff dynasty in Russia. He also grouped nations into two other divisions, as England, France and Germany in the "Compact or consolidated class," with China, Austria, Russia and the United States in the "less compact group."

Prussian Aim to Fight

"Prussia is the most solidified state in Europe and fighting is her chief business." The speaker traced the course by which Prussia united the German states, ousting Austria, and how she has now taken Austria back under her tutelage. He declared that the "greatest German victory was her victory over her allies—making Austria, Turkey, etc., follow her dominance."

(Continued on page 4)

CALENDAR

Monday, April 2, 1917

1.00 P. M.—T. C. A. Discussion Group.
Room 4-431.
2.00 P. M.—Final Payment for Junior Prom Due.
4.10 P. M.—Junior Crew Practice.
5.00 P. M.—Sophomore Crew Practice.
5.15 P. M.—Senior Crew Practice.

Tuesday, April 3, 1917

1.30 P. M.—Institute T. C. A. "Bible" Committee Meeting Room 3-203.
5.15 P. M.—Senior Crew Practice.



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

News Offices, Charles River Road, Cambridge, Mass.; 152 Purchase Street, Boston, Mass.

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MONDAY, APRIL 2, 1917

GROWING TOGETHER

VOLUME XXXVI has terminated the most adventurous and one of the most progressive years in the history of The Tech. A single year has seen the successful carrying out of a program of change and expansion quite in keeping of the great Institute which, in its own way, it serves; and has likewise extended its field of usefulness and co-operation with other Institute activities in a manner which sets new standards and opens the way for new progress in the future.

Early in the Institute's history The Tech was organized as a socializing agent, to help overcome the obstacles in place and time which ran counter to undergraduate unity at Technology. After the years of struggle and development which The Tech has survived, the new Technology brings it to the fulness of its opportunities, and consequently of its obligations, for service. The Tech hopes to be not the smallest factor in the growth here of campus life and the cementing of college tradition.

CHECK!

THE cry from the Daily Illini which we quote below is an apt expression of the dilemma into which the news editor is sure to fall if he attempts to please all his readers. After all, the problem of college news editing is about the same everywhere; people and activities universally prefer news about themselves to any other kind. We do our best:

"There is scarcely a person connected with the university who isn't quite confident that he is a better judge of news values than any news editor of the Illini—especially concerning a story in which he has a personal interest.

"If one were to collect every day 'all the news that's fit to print,' considering and catering to the desires of all people, there would be no difficulty in filling a sheet twice as large as ours. Of all this news or near news some one must be the judge as to interest or value to the reading public. This story must be chosen; that discarded. To some individual or some class of individuals every item discarded or 'boiled down' is of greater importance than any other item used.

"The editor makes his selections of the day's news to be printed on the basis of the point of view from which he looks at the story. He rejects it on the same basis. Any one may disagree with him, but no man can prove that his judgment is better. The newspaper editor is always seeking to make the widest appeal possible, and to do this he studies his reading public, diagnoses its likes and dislikes, and makes up his paper, giving the public 90 per cent. of what it wants and an additional 10 per cent. of what he thinks it ought to have.

"Some one must be the judge of news values, and that some one is the news editor. If we were to consider only the wishes and desires of the individuals who have a personal interest in the stories, every story would be three times its present length.

"The college daily is constantly under pressure to become a medium for enterprising press agents rather than a dispenser of news. Every activity, every enterprise, every event which is of special interest to your group must be boosted—if it isn't the editor doesn't know how to judge news values, and you must pour out your wrath upon him. We are not claiming infallibility for the staff as a whole or for any member of the staff. We are, however, doing our best, and what we ask you to remember is that if your story doesn't get the space you think it is worth, 999 people out of every 1,000 either haven't noticed it, or having noticed it give it no thought."—Illini.



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OTTO H. KAHN NOW AMERICAN CITIZEN

Member of Corporation Passes Final Examination Before Judge at Morristown, N. J.

Otto H. Kahn of the banking firm of Kuhn, Loeb & Company and a member of the Institute Corporation, has now become an American citizen, having passed his final examination last Thursday morning before Judge Salmon of the Court of Common Pleas at Morristown, N. J. Mr. Kahn was born in Mannheim, Germany. After having spent several years in the banking house of his father he went to London where he became affiliated with the branch of the Deutsche Bank. Five years later, having then become a British subject, he came to the United States where he has lived for the past twenty-three years.

In explanation of his application for American citizenship, Mr. Kahn made the following statement:

"Prior to the war I had determined to become an American citizen and had initiated steps with that end in view. The advent of the war caused me to postpone the filing of my final application papers, as I feared that my action or motives in giving up my British nationality during the war might be misunderstood.

"In view, however, of recent developments I believe that there is no longer room for any such misunderstanding. Moreover, I feel that these developments have made it my duty now to assume formally the obligations and duties of citizenship in the country in which I have worked and lived these many years and expect to live permanently, in which my children were born and expect to live, and to which I have become deeply attached."

While in London, Mr. Kahn had a number of opportunities to enter English public life. At one time he was selected as the Conservative candidate for Parliament but declined this honor claiming that he had no time for politics.

For several years after his arrival in this country he was connected with the firm of Speyer & Co. He then traveled for a year and afterwards joined the firm of Kuhn, Loeb & Co. He became a member of the Corporation last year.

PREPAREDNESS IS NORMAL CONDITION AT TECHNOLOGY

According to Maj. Edwin T. Cole, Technology is saying nothing, but doing much, in preparation for the impending crisis.

"Preparedness," he declares, "is the normal condition at Technology. The Institute has been carrying on combined courses of technical training and compulsory military training, which have fitted the students for reserve officers' work in the technical branches of the service for the last 50 years.

"During the present excitement Technology has endeavored to keep the students calm, to avoid any hysterical action; but has tried to show the student body the kind of duty for which they will be best fitted in the event of hostilities."

BUSINESS MEETING OF BIBLE COMMITTEE

The committee in charge of the "Institute Bible" are to have a business meeting at 1.30 P. M. on Tuesday, April 3, in Room 3-203. The management desires all the activities who wish material put in the handbook concerning their respective organizations to hand in such information at the T. C. A. office as soon as possible.

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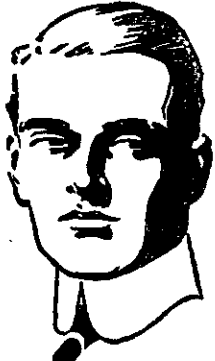
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T. C. A. ELECTION BALLOTS TO BE SENT OUT TODAY

Ballots Due at Caf or T. C. A. Office Thursday Before 6 O'clock

Ballots for the election of officers of the Technology Christian Association will be mailed to all the members this evening. These ballots must be left at the Caf or the T. C. A. office between 9 o'clock and 6 o'clock, Thursday, April 5. The members will also be asked to vote on the new Constitution which will be printed on the ballot. The following is a list of the nominees and their activities:

- President: George S. Brewer '18. B. A. Oberlin College; Course X; Chairman of Committee on Engineering Opportunities.
- J. E. Longley '18. Course I; Member of the Church Cooperation Committee.
- Vice-President: A. G. MacAllister '18. Course VI; Chairman of Boys' Work Committee.
- George A. Irwin '19. Course VI; Chairman of Promotion Committee; Advertising Manager of The Tech.
- Treasurer: P. M. Strang '18. Course XV; Member of Committee on Foreign Relations.
- E. W. Rounds '18. Courses II and VI; Freshman Advisor; Captain of the Wrestling Team 1916-1917.

SHOW REHEARSALS

There will be the following rehearsals this week:

Wednesday—Orchestra in Caf at 5 o'clock. Soloists in Caf at 5 o'clock.

Thursday—Orchestra in Caf at 5 o'clock. Chorus in Room 1-190 at 7.15 o'clock. Cast in Room 1-190 at 7.15 o'clock.

Friday—Cast in Room 1-190 at 7.15 o'clock. Chorus in Room 1-190 at 7.15 o'clock. Chorus in Room 1-190 at 7.15 o'clock.

Saturday—Orchestra in Room 1-190 at 7.15 o'clock. Cast in Room 1-190 at 7.15 o'clock. Chorus in Room 1-190 at 7.15 o'clock.

CATHOLIC CLUB BANQUET TO BE HELD IN APRIL

Yesterday, Palm Sunday, about 100 members of the Catholic Club attended 9 o'clock mass at the Cathedral of the Holy Cross. On coming out breakfast was served at which he Reverend Dr. Driscoll, Jeremiah O'Neil, Dr. Wiseman '15 and ex-president William Drumme spoke. This was followed by a business meeting at which it was decided to hold a banquet in the latter part of April.

T. C. A. MEETINGS

There will be a series of meetings held under the auspices of the T. C. A. on Monday, Wednesday and Friday of this week. The subject under discussion will be "What Easter Means to Me?" Professors Wickenden, Kneeland and Norton of the Faculty will each give a short talk at these discussion groups. The meetings will last from 1 to 1.30 o'clock on the above mentioned days and will be given in Room 4-431.

E. H. S. CLUB DINNER

The English High School Club will hold its second dinner of the season Friday, April 6, at 6.30 P. M. Mr. Marsh of the faculty of English High School will be one of the two speakers who have been secured for the evening. The name of the other speaker has not been announced as yet. The price will be fifty cents the plate.

SUBMARINE BUILDER GIVES IDEAS ON COAST DEFENCE

E. H. Ewertz Tells Electrical Engineers of U-Boat Construction

Last Thursday evening a small but appreciative audience listened to an illustrated lecture on submarines given by Mr. E. H. Ewertz of the Fore River Ship Building Corporation. The talk was given under the auspices of the Electrical Engineering Society, and was preceded by a short business meeting.

Mr. Ewertz gave a spirited discussion on the subject of undersea craft which was profusely illustrated with sage remarks concerning the adaptability of the submersible to fighting conditions, and entailed a description of details which went far to clear up popular misconceptions regarding the boats. The speaker was firm in his stand that America is decidedly behind the times in the matter of adequate coast protection. Upon this phase he said: "We have advocated the building of submarines for the past twenty years and the prevalent idea seems to be that we may produce such boats at a moment's notice. We have everything in this country, but we have been going along peacefully in the belief that we could prepare in a short time. Time, however, is something no one can buy. We must lay our plans far in advance. At our shipyards we built twenty submarines for England some time ago. The order was given in November and we were allowed fourteen months in which to live up to the contract. We produced ten of the boats, which were constructed in Montreal, in seven months. This shows what can be done in necessity. Ordinarily it requires from seven to twelve months to put a submersible together, while battle cruisers take at least thirty-six months in the building. That this country is sluggish is shown by the fact that one of our three year old boats, the M-1, has been tied up at the yards waiting for new batteries for a period of five months—and may stay out of service yet another two months.

"Submarines against submarines are poor weapons. We do not want the so-called fleet submarines to carry the under-sea warfare into external waters. What we most require is a small navy of the so-called coast defense type to place around our entire coast. Such boats on our shores will mean a police on the corner watching our homes. Our sea coast could easily be assailed at present. We need submarines, for now that we have gained a good part of the foreign trade of the world we must have the power in armament to hold our own if our friends from across endeavor to hold us up and demand that we do as they say."

After thus placing himself on record as to the part the submarine might assume as a means of adequate coast defense, Mr. Ewertz gave a brief history of the undersea boat from the earliest recorded activity of the same up to the present. The story entailed the mention of such names as Bushnell, Fulton, Holland, Baker and Lake; the developments being traced through successive periods from 1642 to 1916. The range of activity of the boats has been amply demonstrated by the German masters of the craft, the newer fleet boats having a cruising radius of over 3000 miles with a displacement of 1500 tons (surface), and a surface speed of twenty knots. Mr. Ewertz has been intimately connected with the underwater vessels since their comparatively recent inception into practical usage. He did a large portion of the construction of Holland's first boat, which was built in this country in 1893. From this time on the rise of the submarine as a weapon has been remarkably rapid, the real development taking place in the last twenty years. Mr. Ewertz dwelt for a considerable period of time upon the methods of control and submerging, and also instructed those present as to a few of the details.

The business meeting, which occupied the first fifteen minutes of the evening, was given to the election of an election committee composed of Abels '17, Costelloe '18, Ely '18, Gray '18, and Richards '18. It was also voted that affiliation with the American Institute of Electrical Engineers be applied for.

The nominations for the offices of President, Vice-President, Secretary and Treasurer must be handed in at the headquarters of the society in Room 10-203, each nomination having been countersigned by at least five members of the society. The time limit for nominations is extended to Friday, April 6.

The next meeting of the society will be on April 4 in Room 10-250 at 7.30 o'clock. W. H. Blood, Jr., of the Stone and Webster Corporation, will give some pointers on the "Grounding of Alternating Currents."

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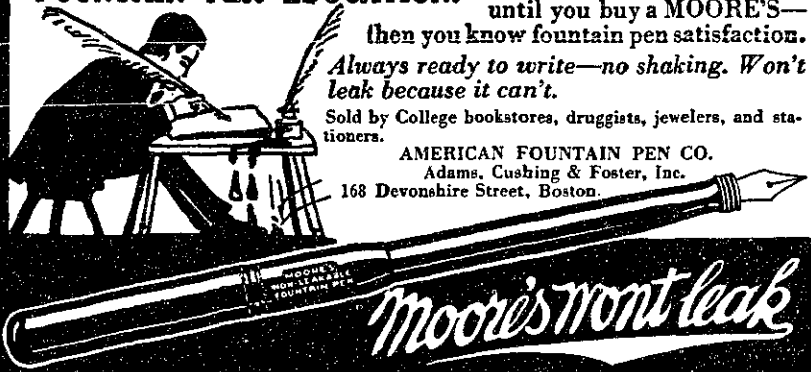
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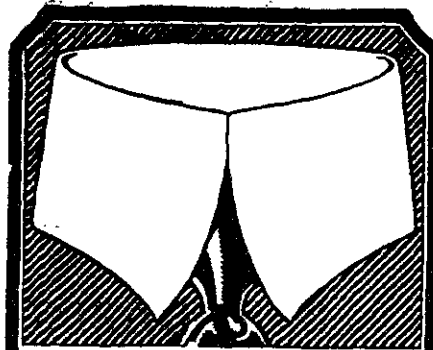
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The Position of the United States

In closing he outlined the absolute necessity for America to ensure an allied victory. He said that Washington, warning about "entangling alliances" 120 years ago, was writing for his own generation when "we were five or six weeks away from Europe and not a sail of five, six or seven days." He traced the support the Monroe Doctrine had been given by England and how Germany had spoken of it as "colossal impudence," how England had prevented the other European powers from giving aid to the South in the Civil War, and how she prevented serious interference with Dewey's plans at Manila Bay.

Drawing lessons from history, he declared that a sea power when once destroyed can never regain its position, although a country may "be overrun, plundered and ravaged, and even its capital destroyed, and in a few generations be as powerful as before." For the interest of this country and the western hemisphere, and even the world at large, Professor Sumner declared that the naval supremacy of Great Britain must not be destroyed.

Germany's Promises and British Actions

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"THE WORLD AND THE WAR"

(Continued from page 1)

Who Began the War?

As to "who began the War?" Professor Sumner stated that it was not answered by elaborate investigations into who first mobilized or "started the ball rolling." "The real question is—whose ambitions and plans willed the war?" In answer to this he quoted Maximilian Harden, editor of the *Zugeit*, whose publication has several times been suppressed by the Prussian government and who in 1914 declared that "Germany wished a world empire."

The Continuation of Policy Idea

The Prussian idea of war is that it is simply a "continuation of policy" and it is "up to the statesmen to determine when ordinary policy ceases and the continuation begins." He quoted a prominent Prussian as saying, "War must leave to the vanquished nothing but their eyes to weep with, and modesty on our part would be unseemly."

The "Blood and Iron" Welding

Professor Sumner then traced the rise of Prussia as a European power beginning with the conquests of Frederick the Great in 1740, and the refusal of Frederick William IV in 1848 to accept the crown as Emperor of Germany from the hands of the people and declared that he would take it from no source except the sovereigns of the different states. Next upon the scene came Bismarck and the welding of Germany by "blood and iron" commenced. With Austria as an ally in 1864 the first of a series of three wars took place and two duchies were wrested from the Danes. In 1866 Germany broke with Austria, completely defeated her in a month, and formed the North German Confederation, to offset which Austria allied with Hungary.

"Dropping the Pilot"

"The policy of Bismarck gave Prussia the military primacy of Europe" when the Emperor Wilhelm I was crowned in the Palace of Versailles in 1871. The policy of the present Kaiser called for a primacy outside of Europe, and Professor Sumner recalled the famous cartoon of Punch entitled "Dropping the Pilot," which appeared when Bismarck's resignation, much to his surprise, was accepted.

Quoting the present Kaiser the new policy is clearly shown to be outside expansion—"Bitter is our need of a strong fleet," and again, "Our future is on the water." Germany grabbed Heligoland and the Kiel Canal recently finished and now sheltering the German fleet protecting the northern seaports of Germany, testifies to the wisdom of the action.

Southeast to the Persian Gulf

The Kaiser felt that Germany must not lose the value of her emigrants and colonization was attempted. Trouble with the French in Morocco and with other nations led Germany to look toward the southeast. She dreamed of extending herself to the Persian Gulf. Such a viewpoint had been held as early as 1850, but nothing active was done until the latter part of the last century. "Peaceful penetration" was worked upon Austria, but in the Balkans, in Asia Minor, in Turkey and in Mesopotamia other means were necessary. In 1899 a concession was obtained from Abdul Hamid for a railway across Asia Minor to the Persian Gulf and this railway has by now probably been completed to the Euphrates valley.

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